### PROJECT DESCRIPTION

#### I. GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING SIGNAL HEADS WITH LED SIGNAL HEADS. INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, VIDEO DETECTION, APS PUSHBUTTONS AND SIGNS AT THE INTERSECTION OF MD 212 (POWDER MILL ROAD) AND THE HIGH POINT HIGH SCHOOL DRIVEWAY IN PRINCE GEORGE'S COUNTY. MD 212 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

## II. INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA THREE-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE WITH AUDIBLE ACTUATION FOR THE EAST LEG OF THE INTERSECTION AND WITH AN AUDIBLE ACTUATION FOR A PEDESTRIAN PHASE ACROSS THE NORTH LEG OF MD 212.

### III. APS NOTE

### TO CROSS POWDER MILL ROAD:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS POWDER MILL AT SCHOOL DRIVEWAY, WAIT."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

### TO CROSS SCHOOL DRIVEWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS SCHOOL DRIVEWAY AT POWDER MILL, WAIT."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

### EQUIPMENT LIST

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO. 900000	QUANTITY 1	UNIT EA	DESCRIPTION VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS
900000	94	SF	SHEET ALUMINUM GROUND MOUNTED SIGN  8 - S1-1 FYG (36"X36")
900000	10	SF	SHEET ALUMINUM SPAN MOUNTED SIGN 1 - D-3(1) (84"X16")

# EQUIPMENT LIST

## A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM NO.	. QUANTITY	UNIT	DESCRIPTION	
120500	1	EA	MAINTENANCE OF TRAFFIC	
203030		CY	TEST PIT EXCAVATION	
585621	680	LF	12" WHITE PREFORMED THERMOPLASTIC MARKING LINES	
585625		LF	24" WHITE PREFORMED THERMOPLASTIC MARKING LINES	
634300	180	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8"	DEPTH
655105	910	SF	5" CONCRETE SIDEWALK	
655120	50	SF	DETECTABLE WARNING SURFACES	
800000	1	EΑ	2 WIRE CONTROL UNIT	
800000	4	EΑ	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGN	
800000	4	EΑ	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEADS	
800000	1	EΑ	REMOVE & DISPOSE MATERIAL AND EXISTING EQUIPMENT PER ASSIGNME	NT
800000		EΑ	VIDEO DETECTION CAMERA AND CABLE UP TO 500'	
801001	3	CY	CONCRETE FOR SIGNAL FOUNDATION	
801106	103	LF	WOOD SIGN SUPPORTS 4" $\times$ 6"	
802145	1	EA	ADJUST EXISTING HANDHOLE	
802501	85	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	EX.
805115		LF	3" SCHEDULE 80 RIGID PVC CONDUIT - BORED	CHE
805125		LF	2" SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED	
805135		LF	3" SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED	
805150		LF	3" SCHEDULE 80 RIGID PVC CONDUIT — SLOTTED	
810605		EΑ	NONINVASIVE DETECTOR LEAD IN CABLE UP TO 1000'	
811001	4	EΑ	ELECTRICAL HANDHOLE	
811002		EΑ	REMOVE ELECTRICAL HANDHOLE	
813014		SF	INSTALL GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	
813015		SF	INSTALL OVERHEAD SIGN (INCLUDING ALL HARDWARE)	
813022		SF	REMOVE EXISTING GROUND MOUNTED SIGNS	
818004		EΑ	10 FOOT BREAKAWAY PEDESTAL POLE	
860284		EA	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	
861105		LF	ELECTRICAL CABLE — 2 CONDUCTOR (NO. 14 AWG)	
861107		LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	
861108	970	LF	ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 AWG)	

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

# CONTACTS

### OFFICE OF TRAFFIC AND SAFETY

MR. AVIJIT MAJI CHIEF. TRAFFIC OPERATIONS 410-787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. EDWARD RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION 410-787-7650

MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS SECTION 410-787-7670

MR. MICHAEL STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7696

## DISTRICT (DISTRICT 3 - PRINCE GEORGE'S)

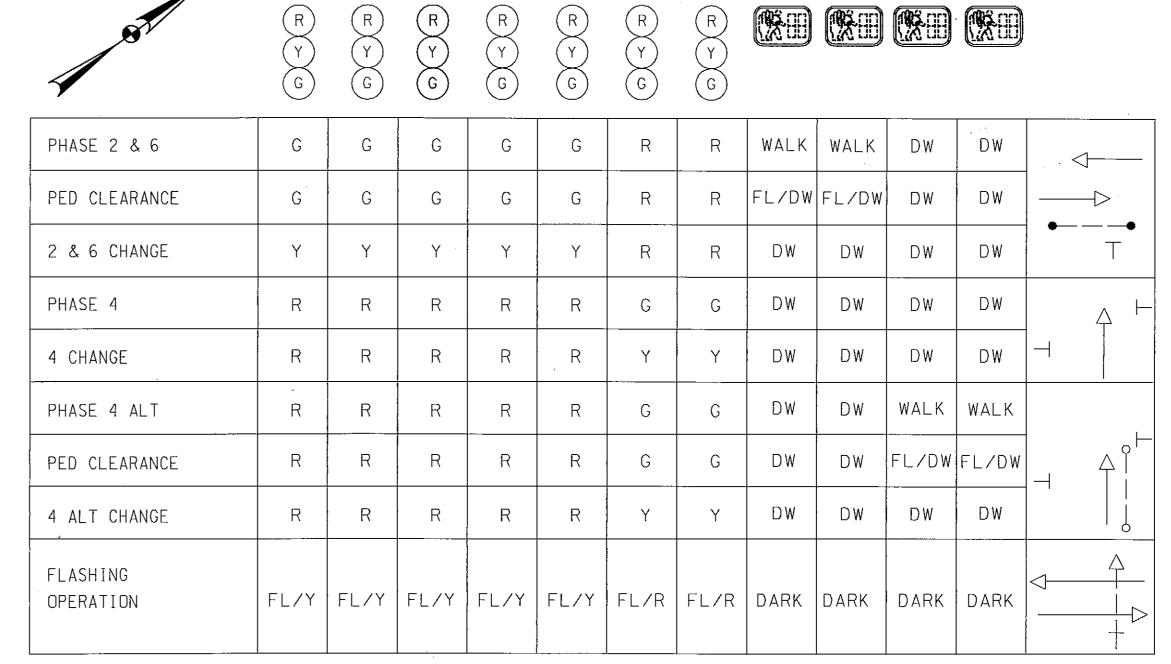
MR. BRIAN YOUNG DISTRICT ENGINEER 301-513-7311

MR. VENU NEMANI ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7404

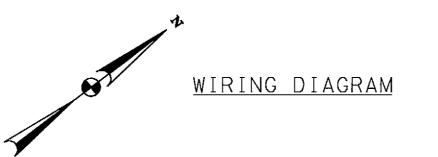
MR. VICTOR GRAFTON DISTRICT UTILITY ENGINEER 301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336

MR. TOM FOUNTAIN ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304



PHASE CHART



\_C.D.GW

## WIRING KEY

F,G,H,I, - 7-CONDUCTOR ELECTRICAL N,P CABLE (NO. 14 A.W.G.)

A,C,E,J,K - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) B.D.L.M

- VIDEO DETECTION LEAD-IN CABLE

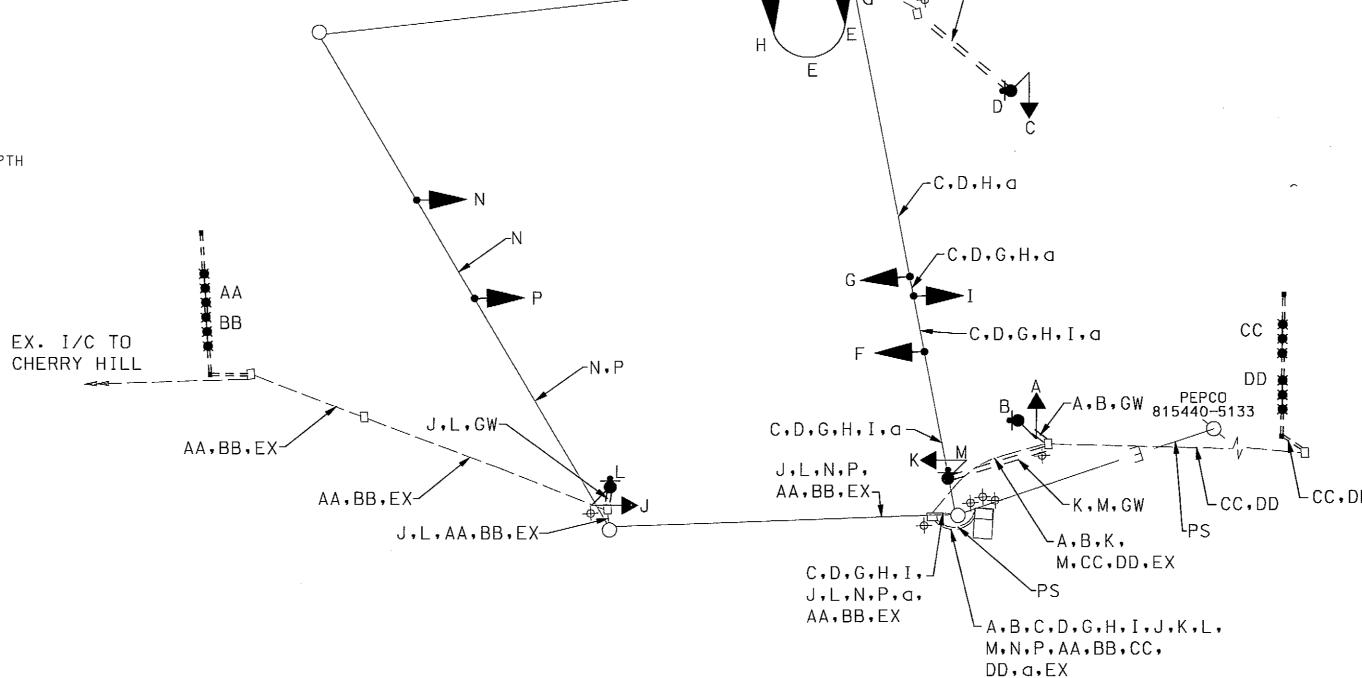
MICROLOOP PROBE LEAD-IN CABLE

→ - EXISTING GROUND ROD

GW - NO.6 A.W.G STRANDED BARE COPPER GROUND WIRE

PS - POWER SOURCE

EX - EXISTING SIGNAL CABLE





SCALE N.T.S. DATE\_

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 212 (POWDER MILL ROAD) AT HIGH POINT HIGH SCHOOL

POWDER MILL, MD

# **GENERAL INFORMATION SHEET**

12-13-12

COUNTY\_ PRINCE GEORGE'S DESIGNED BY LOGMILE TIMS NO. F.A.P. NO. TOD NO.

**PARSONS** BRINCKERHOFF

100 S. Charles Street Tower 1, 10th Floor Baltimore, MD 21201 (Ph) 410-787-5050 (Fax) 410-727-4608 http://www.pbworld.com

TS NO. 178E-GI

SHEET NO. 2 OF 3 DRAWING **SG-05** OF 05

CONTRACT NO. PG7865477

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